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March 27, 2013

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PUBLIC SERVICE
COMMISSION

Director of Engineering
Public Service Commission
P.O. Box 615
Frankfort, Kentucky 40602

RE: Administrative Case No. 2006-00494

With this letter Jackson Purchase Energy Corporation is filing its annual reliability reports as described in the October 26, 2007 order.

If you have further questions, please feel free to call.

Sincerely,

Scott Ribble, P.E.
Vice President of Engineering & Operations

Enclosures



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The power of human connections

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

| | | |
|----------------------------|-----|--|
| UTILITY NAME | 1.1 | <u>Jackson Purchase Energy Corporation</u> |
| REPORT PREPARED BY | 1.2 | <u>Scott Ribble</u> |
| E-MAIL ADDRESS OF PREPARER | 1.3 | <u>scott.ribbon@jpenenergy.com</u> |
| PHONE NUMBER OF PREPARER | 1.4 | <u>270-442-7321</u> |

SECTION 2: REPORT YEAR

| | | |
|-------------------------|-----|------|
| CALENDAR YEAR OF REPORT | 2.1 | 2012 |
|-------------------------|-----|------|

SECTION 3: MAJOR EVENT DAYS

| | | |
|-----------------------------------|-----|-------------|
| TMED | 3.1 | 19.13299538 |
| FIRST DATE USED TO DETERMINE TMED | 3.2 | 1/1/2007 |
| LAST DATE USED TO DETERMINE TMED | 3.3 | 12/31/2011 |
| NUMBER OF MED IN REPORT YEAR | 3.4 | 0 |

NOTE: Per IEEE 1366 TMED should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

| | | |
|-------|-----|--------|
| SAIDI | 4.1 | 203.85 |
| SAIFI | 4.2 | 2.7 |
| CAIDI | 4.3 | 75.62 |

Including MED (Optional)

| | | |
|-------|-----|-------|
| SAIDI | 4.4 | _____ |
| SAIFI | 4.5 | _____ |
| CAIDI | 4.6 | _____ |

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of April of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and TMED

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SECTION 5: OUTAGE CAUSE CATEGORIES Excluding MED

| CAUSE CODE DESCRIPTION | SAIDI VALUE | CAUSE CODE DESCRIPTION | SAIFI VALUE |
|------------------------------|----------------|------------------------------|----------------|
| Storms (Non ME Days) 5.1.1 | 43.87732 | Supplier 5.2.1 | 1.03898 |
| Supplier 5.1.2 | 42.30946 | Line Equipment 5.2.2 | 0.348208 |
| Line Equipment 5.1.3 | 35.69704 | Storms (Non ME Days) 5.2.3 | 0.299236 |
| ROW 5.1.4 | 13.92957 | Animal 5.2.4 | 0.188672 |
| OCR / Breaker 5.1.5 | 12.07732 | ROW 5.2.5 | 0.153345 |
| Lightning 5.1.6 | 12.06676 | Public 5.2.6 | 0.131082 |
| Animal 5.1.7 | 10.52848 | OCR / Breaker 5.2.7 | 0.107212 |
| Substation 5.1.8 | 8.720651 | Cut Out - Line or XFMR 5.2.8 | 0.107075 |
| Cut Out - Line or XFMR 5.1.9 | 7.419642 | Lightning 5.2.9 | 0.096781 |
| Public 5.1.10 | 6.43832 | Planned 5.2.10 | 0.093601 |

SECTION 6: WORST PERFORMING CIRCUITS

| CIRCUIT IDENTIFIER | SAIDI VALUE | MAJOR OUTAGE CATEGORY |
|--------------------|----------------|-----------------------|
| 7601 | 6.1.1 1421.768 | Storms |
| 3202 | 6.1.2 650.9803 | Storms |
| 4103 | 6.1.3 607.4433 | Supplier |
| 7605 | 6.1.4 571.5627 | ROW |
| 4101 | 6.1.5 542.8629 | Supplier |
| 5101 | 6.1.6 441.5179 | Line Equipment |
| 6104 | 6.1.7 352.5014 | Wire Primary |
| 4301 | 6.1.8 326.2373 | Line Equipment |
| 6601 | 6.1.9 302.9524 | Wire Primary |
| 504 | 6.1.10 300.525 | Line Equipment |

| CIRCUIT IDENTIFIER | SAIFI VALUE | MAJOR OUTAGE CATEGORY |
|--------------------|-----------------|-----------------------|
| 4104 | 6.2.1 20.13333 | Supplier |
| 7601 | 6.2.2 11.41754 | Storms |
| 7605 | 6.2.3 5.980597 | ROW |
| 4101 | 6.2.4 5.875389 | Supplier |
| 7705 | 6.2.5 4.744681 | ROW |
| 3202 | 6.2.6 4.601073 | Storms |
| 7805 | 6.2.7 4.373684 | Animal |
| 4103 | 6.2.8 4.349754 | Supplier |
| 5101 | 6.2.9 4.110338 | Line Equipment |
| 1502 | 6.2.10 3.584746 | Line Equipment |

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SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

Jackson Purchase Energy Corporation's vegetation management plan is a four year cycle which includes 400 miles of clearing lines and 300-500 acres of herbicide treatment per year. JPEC met this goal for the year 2012 and has begun the new cycle work for 2013. JPEC does not anticipate any significant changes to the plan in 2013.

SECTION 8: UTILITY COMMENTS